

WHAT IS CLAIMED IS:

1. An information recording/reproducing apparatus for recording and playback video information, comprising:

5 means for assembling video packs, using the input source;

means for assembling a video object unit, using the video packs; and

10 means for coordinating the content of the copy control information with the content of the video scrambling control information when the video object unit is assembled.

2. The apparatus according to claim 1, wherein an information processing data format defines an  
15 audio pack having a packet, including a packet header having audio scrambling control information, and including audio data; and

said coordinating means coordinates the content of the video scrambling control information of the video  
20 packs with the content of the audio scrambling control information of the audio pack.

3. The apparatus according to claim 2, wherein said information processing data format defined an sub picture pack having a packet including a packet  
25 header having sub picture scrambling control information and including sub picture data; and

said coordinating means coordinates the content of

1008356-032602

the video scrambling control information of the video packs with the content of the sub picture scrambling control information of the sub picture pack.

5           4. The apparatus according to claim 3, wherein  
said coordinating means determines the contents of said copy control information in a unit control pack, using the contents of the video scrambling control information contained in the pack header of a video pack when the video pack is input as input source.

10           5. The apparatus according to claim 3, wherein  
said video scrambling control information, said audio scrambling control information and said sub picture scrambling control information are copy authorizing information or copy prohibiting  
15 information.

20           6. The apparatus according to claim 1, wherein  
said coordinating means detects copy-related information contained in said input source and determines the contents of said copy control information in a unit control pack on the basis of the contents of the detected copy-related information.

25           7. The apparatus according to claim 6, wherein  
said coordinating means rearranges the contents of said copy control information and those of said video scrambling control information so as to authorize copying when the contents of the detected copy-related information authorizes copying but prohibit copying

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when the contents of the detected copy-related information authorizes copying only once or prohibits copying.

- 5           8. The apparatus according to claim 1, wherein  
an information processing data format defines a video object formed by assembling video object units and the attribute information on the attributes of a video object so as to make the attribute information containing copy-related information for the video  
10 object; and  
said coordinating means has:  
means for making a majority decision by  
determining if the copy control information contained in each of the plurality of unit control packs in a  
15 video object authorizes or prohibits copying; and  
means for determining the contents of the copy control information for the video object on the basis of the majority decision.
- 20           9. The apparatus according to claim 1, wherein  
an information processing format further defines a video object formed by assembling video object units and the attribute information on the attributes of a video object so as to make the attribute information containing copy-related information for the video  
25 object; and  
said coordinating means has:  
means for detecting if the copy control



said plurality of objects authorize copying, said control means provides copy-related information for the file with contents also authorizing copying.

12. The apparatus according to claim 2, wherein

5       said coordinating means includes means for scrambling video data and audio data on the basis of said video scrambling information and said audio scrambling information.

13. The apparatus according to claim 1, wherein

10       an information processing data format further defines a video object formed by assembling video object units; and

      said apparatus further comprises means for recording video objects on a hard disk or an optical disk.

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14. A method for coordinating copy control information processed by an information recording/reproducing apparatus for recording and playback video information, comprising steps of:

20       assembling video packs, using the input source; assembling a video object unit, using the video packs;

      coordinating the content of the copy control information with the content of the video scrambling control information when the video object unit is assembled.

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15. The method according to claim 14, wherein

an information processing data format defines an audio pack having a packet including a packet header having audio scrambling control information and including audio data;

5           said coordinating step including step of:

coordinating the content of the video scrambling control information of the video packs and the content of the audio scrambling control information of the audio pack in same meaning.

10           16. The method according to claim 15, wherein

said information processing data format defines an sub picture pack having a packet including a packet header having sub picture scrambling control information and including sub picture data;

15           said coordinating step including step of:

coordinating the content of the video scrambling control information of the video packs and the content of the sub picture scrambling control information of the sub picture pack in same meaning.

20           17. The method according to claim 16, wherein

said coordinating step including step of:

determining the contents of said copy control information in a unit control pack by using the contents of the video scrambling control information contained in the pack header of a video pack when the  
25 video pack is input as an input source.

18. The method according to claim 14, wherein

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said coordinating step including steps of:  
detecting the copy-related information contained  
in said input source; and

5 determining the contents of said copy control  
information in a unit control pack on the basis of the  
contents of the detected copy-related information.

19. The method according to claim 18, wherein  
said coordinating step including step of:

10 rearranging the contents of said copy control  
information and those of said video scrambling control  
information, so as to authorize copying when the  
contents of the detected copy-related information  
authorizes copying but prohibits copying when the  
contents of the detected copy-related information  
15 authorizes copying only once or prohibits copying.

20. The method according to claim 14, wherein  
said information processing format further defines  
a video object formed by assembling video object units  
and an attribute information on the attributes of a  
20 video object so as to make the attribute information  
containing copy-related information for the video  
object;

said coordinating step including steps of:  
making a majority decision by determining if the  
25 copy control information contained in each of the  
plurality of unit control packs in a video object  
authorizes or prohibits copying; and

10082356-022602

determining the contents of the copy-related information for the video object on the basis of the majority decision.

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